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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/276,021	03/25/1999	KHALID YOUSSEFF	024/1	1550	
75	90 05/25/2006		EXAM	INER	
Gregory D Caldwell Blakely Sokoloff Taylor & Zafman LLP 12400 Wilshire Boulevard Seventh Floor			HAROLD, JEFFEREY F		
			ART UNIT	PAPER NUMBER	
Los Angeles, C	CA 90025		2614		
			DATE MAILED: 05/25/2000	DATE MAILED: 05/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/276,021	YOUSSEFF, KHALID				
Office Action Summary	Examiner	Art Unit				
	Jefferey F. Harold	2614				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 13 M	arch 2006.					
· <u> </u>	action is non-final.					
,	·—					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-3 and 5-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Park (United States Patent 6,873,704).

Regarding **claim 1**, Park discloses an apparatus for removing echo from speech signals with variable rate. In addition, Park discloses a means for implementing, at the start of a communications session over a communications line, a plurality of echo cancellers to cancel echo on the communications line, the echo cancellers each operating to cancel echoes that arrive during a predetermined bandwidth of time, the predetermined band-widths of time being non-overlapping; means for training each of the plurality of echo cancellers to produce a cancellation signal that cancels echoes arriving during the predetermined bandwidth of time associated with the echo canceller; and means for eliminating after a predetermined training period, all echo cancellers that produce a cancellation signal below a predetermined threshold, as disclosed at column 5, line33 through column 7, line 19 and exhibited in figures 3-5.

Regarding **claim 2**, Park discloses everything claimed as applied above (see claim 1), in addition Park discloses wherein the bandwidths of time are equal in width to each other, as disclosed at column 5, lines 33-45.

Regarding **claim 4**, Park discloses everything claimed as applied above (see claim 1), in addition, Park discloses the since the echo signals may have different delay times depending upon circumstances, the number of taps in the echo canceller will be decided by the circumstances. The allotting method may be 1/N wherein N is the number filters, as disclosed at column 5, lines 26-35. Thus Park inherently discloses a graphical user interface for allowing a user to alter the predetermined threshold.

Regarding **claims 5, 6, 8, 9, and 11**, they are interpreted and thus rejected for the reasons set forth above in the rejection of claims 1, 2 and 4.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person, having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 3, 7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park in view of well know prior art Gritton.

Regarding **claim 3**, Park discloses everything claimed, as applied above, (see claim 1), in addition Park discloses non-overlapping bandwidths, however, Park fails to wherein each is each approximately 16 milliseconds apart. However, the examiner

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maintains that it was well known in the art to provide wherein each is each approximately 16 milliseconds apart, as taught by Gritton.

In addition, Gritton discloses wherein the adaptive echo cancellers are modeled at 16ms intervals, as disclosed at column 3, lines 28-55.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Park by specifically providing wherein each is each approximately 16 milliseconds apart, as taught by Gritton, for the purpose of providing each of the adaptive cancellers is connected in a prescribed sequence in a so-called preferred position in the tandem connection.

Regarding **claims 7 and 10**, it is interpreted and thus rejected for the reasons set forth above in the rejection of claim 3.

Response to Arguments

3. Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Citation of Pertinent Art

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Flanagan et al. (United States Patent 5,815,496), discloses a cascade echo canceller arrangement.

Trump (United States Patent 5,815,568), discloses disabling tone detector for network echo cancellers.

Dunn et al. (United States Patent 6,580,793), discloses a method and apparatus for echo cancellation with self-deactivation.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F. Harold whose telephone number is 571-272-7519. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing F. Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jefferey F Harold Primary Examiner

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JFȟ

May 23, 2006